THANK YOU to our partners who have been flexible, adaptable, and responsive during this very difficult time.

## **COVID-19 ASSISTANCE**







In response to COVID-19, our partners found innovative ways to keep 6 experiments progressing in spite of social distancing mandates **AND took on new efforts** to help the City respond:

- Unable to safely access Garbage Trucks, SwRI initally outfitted their own company vehicles with sensors to begin testing technology for the Sensors on City Vehicles project.
- USAA, SwRI and UTSA joined the local entrepreneur effort to build Personal Protective Equipment (PPE) with 3-D printers
- USAA Labs and Corporate Responsibility lead virtual volunteer efforts, helping local non-profits innovate and build capacity to effectively respond to the pandemic.
- Designers and IT staff from USAA Labs are consulting City staff on streamlined processes and culture shift to support a more user-friendly website experience
- The R&D program will pivot to focus Year 2 efforts on grant opportunities as the City has an estimated 200 million dollars in budget shortfalls over the next year

# **RACIAL BIAS & EQUITY**

The R&D League is committed to understanding how racial bias plays a role in R&D. Here are some current questions we are asking ourselves. Welcome community feedback on this!

- Where can we utilize tools from the City's Office of Equity, such as <u>Equity Framework Tool</u>, <u>Indicator Report</u>, and <u>Equity Atlas</u>. to improve equity outcomes?
- Where can existing experiments address equity? For example, how can Sensors on City Vehicles address reliance on citizen reporting and under-reporting bias to more equitably allocate resources for City-wide infrastructure needs?
- How can we evaluate data collection and algorithmic models for racial bias? If data collection, AI models, & algorithms include inherent bias, then policy decisions based on that data will have inequitable outcomes. How are we questioning bias from the very beginning?

# **PROGRESS AT-A-GLANCE**

Scope Design Execute Report Lessons

### Sensors on City Vehicles

SwRI is installing a sensor platform on a SWMD vehicle next week to begin collecting data that will improve the detection algorithms. SwRI begin testing sensor platform on a company vehicle and will continue analyzing that data.

### NEZ Impacts Estimator

A visual tool that provides City staff insight into the impacts and efficiencies of the City's housing policies, such as the Neighborhood Empowerment Zones is ready for digital production. The team recently worked with UTSA's Office of Corporate and Foundation Engagement to apply for start-up funding from the San Antonio Area Foundation. Additional requests to the Robert Wood Johnson Foundation and UTSA's Transdisciplinary Teams Program (T2) went unfunded.

#### **Idea Portal**

The 3-month pilot period is well underway, with participants from across XX different departments and over 20 ideas submitted. Next, the Idea Review Committee will develop criteria for how ideas move through the Progress Tracker. There is potential for a second pilot group to spin up this Fall.

#### **ActiveVision**

SwRI has begun rigorous testing and certification of their wrong-way driver detection algorithms at the Florida Dept. of Transportation's Transportation Engineering Research Lab (TERL). ActiveVision detection of vehicle speed, volume, and occupancy will go through a similar evaluation processes at the TERL facilities over the coming months.

### **City Hall To Go**

Concept developed and designed; was ready for execution just before pandemic began. Currently scoping opportunities to pivot toward new approach and use cases.

#### **R&D Program**

Preparing for symposium and turning to grants and alternative funding routes as year 2 focus.

Will continue to move through phases of Year 1 projects.